

SampleCDA - shigella nonhuman positive.xml

```
<?xml-stylesheet type="text/xsl" href="sondra-IBM-CDA.xslt"?>
<ClinicalDocument xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns="urn:h17-org:v3"
xmlns:lab="urn:oid:1.3.6.1.4.1.19376.1.3.2" xsi:schemaLocation="urn:h17-org:v3
CDA.xsd">
  <realmCode code="US"/>
  <typeId extension="POCD_HD000040" root="2.16.840.1.113883.1.3"/>
  <templateId extension="Lab.Report.Clinical.Document"
root="1.3.6.1.4.1.19376.1.3.3"/>
  <id root="1.19.6.11.13.106002044105005028.1187820840001.15"/>
  <code code="18725-2" codeSystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="Microbiology Studies"/>
  <title>Public Health Laboratory Report</title>
  <effectiveTime value="20070822171400.0001-0500"/>
  <confidentialityCode code="N" codeSystem="2.16.840.1.113883.5.25"
displayName="Normal"/>
  <languageCode code="en-US"/>
  <setId extension="07SR012345" root="2.16.840.1.113883.1.3"/>
  <versionNumber value="1"/>
  <recordTarget typeCode="RCT">
    <patientRole classCode="PAT">
      <id extension="90385202" root="1.19.6.11.13"/>
      <patient nullFlavor="OTH"/>
    </patientRole>
  </recordTarget>
  <author>
    <time value="20070822171400.0001-0500"/>
    <assignedAuthor>
      <id extension="AD2007" root="1.19.6.11.13"/>
      <addr><streetAddressLine>650 Harry Rd</streetAddressLine><city>San
Jose</city><state>CA</state><postalCode>95120</postalCode><country>USA</country></ad
dr>
      <telecom value="408-555-5555"/>
      <assignedPerson>
        <name><family>Person</family><given>Author</given></name>
      </assignedPerson>
      <representedOrganization>
        <id extension="AD2007" root="1.19.6.11.13"/>
        <name>IBM</name>
        <telecom value="408-555-5555"/>
        <addr><streetAddressLine>650 Harry Rd</streetAddressLine><city>San
Jose</city><state>CA</state><postalCode>95120</postalCode><country>USA</country></ad
dr>
      </representedOrganization>
    </assignedAuthor>
  </author>
  <author>
    <time value="20070822171400.0001-0500"/>
    <assignedAuthor>
      <id extension="AD2007" root="1.19.6.11.13"/>
      <addr><streetAddressLine>650 Harry Rd</streetAddressLine><city>San
Jose</city><state>CA</state><postalCode>95120</postalCode><country>USA</country></ad
dr>
      <telecom value="408-555-5555"/>
      <assignedAuthoringDevice>
        <softwareName>IBM Public Health Application System</softwareName>
      </assignedAuthoringDevice>
      <representedOrganization>
        <id extension="AD2007" root="1.19.6.11.13"/>

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```
<name>IBM DEVICE</name>
<telecom value="408-555-5555"/>
<addr><streetAddressLine>650 Harry Rd</streetAddressLine><city>San
```

```
Jose</city><state>CA</state><postalCode>95120</postalCode><country>USA</country></ad
dr>
```

```
</representedOrganization>
</assignedAuthor>
</author>
<custodian typeCode="CST">
  <assignedCustodian classCode="ASSIGNED">
    <representedCustodianOrganization>
      <id root="1.19.6.11.13"/>
      <name>Universal Custodian Services</name>
      <telecom value="789-555-2121"/>
      <addr><streetAddressLine>1600 Pennsylvania
Ave</streetAddressLine><city>Washington
```

```
DC</city><postalCode>98765</postalCode><country>USA</country></addr>
</representedCustodianOrganization>
</assignedCustodian>
</custodian>
<legalAuthenticator>
  <time value="20070822171400.0001-0500"/>
  <signatureCode code="S"/>
  <assignedEntity>
    <id extension="B092987200201" root="1.19.6.11.13"/>
    <addr><streetAddressLine>7000 Laboratory
```

```
Drive</streetAddressLine><city>Chicago</city><state>IL</state><postalCode>60622</pos
talCode><country>USA</country></ad
```

```
dr>
  <telecom value="312-555-5555"/>
  <assignedPerson>
    <name><family>Johnson</family><given>Linda</given><prefix>Dr</prefix></name>
  </assignedPerson>
  <representedOrganization>
    <id extension="rm83747" root="1.19.6.11.13"/>
    <name>Public Health Laboratory</name>
    <telecom value="312-555-5555"/>
    <addr><streetAddressLine>1234 Laboratory
```

```
Drive</streetAddressLine><city>Chicago</city><state>IL</state><postalCode>60622</pos
talCode><country>USA</country></ad
```

```
dr>
  </representedOrganization>
  </assignedEntity>
</legalAuthenticator>
<authenticator>
  <time value="20070822171400.0001-0500"/>
  <signatureCode code="S"/>
  <assignedEntity>
    <id extension="274" root="1.19.6.11.13"/>
    <addr><streetAddressLine>7000 Laboratory
```

```
Drive</streetAddressLine><city>Chicago</city><state>IL</state><postalCode>60622</pos
talCode><country>USA</country></ad
```

```
dr>
  <telecom value="312-555-5555"/>
  <assignedPerson>
```

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```
    <name><suffix>MT
ASCP</suffix><family>Technologist</family><given>274</given></name>
    </assignedPerson>
    <representedOrganization>
      <id extension="rm83747" root="1.19.6.11.13"/>
      <name>Public Health Laboratory</name>
      <telecom value="312-555-5555"/>
      <addr><streetAddressLine>1234 Laboratory
Drive</streetAddressLine><city>Chicago</city><state>IL</state><postalCode>60622</pos
talCode><country>USA</country></ad
```

```
dr>
  </representedOrganization>
  </assignedEntity>
</authenticator>
<inFulfillmentOf>
  <order>
    <id extension="28902809" root="1.19.6.11.13"/>
    <code code="XXXXX-X" codeSystem="LOINC" codeSystemName="Shigella Serotype"
displayName="2.16.840.1.113883.6.1"/>
  </order>
</inFulfillmentOf>
<inFulfillmentOf>
  <order>
    <id extension="28902809" root="1.19.6.11.13"/>
    <code code="29576-6" codeSystem="LOINC" codeSystemName="Microbiology
Susceptibility"
```

```
displayName="2.16.840.1.113883.6.1"/>
  </order>
</inFulfillmentOf>
<inFulfillmentOf>
  <order>
    <id extension="28902809" root="1.19.6.11.13"/>
    <code code="PFGEY-Y" codeSystem="LOINC" codeSystemName="Shigella Pulsenet"
displayName="2.16.840.1.113883.6.1"/>
  </order>
</inFulfillmentOf>
<documentationOf>
  <serviceEvent>
    <effectiveTime>
      <low value="20070604"/>
      <high value="20070608"/>
    </effectiveTime>
    <performer typeCode="PRF">
      <assignedEntity>
        <id extension="rm83747" root="1.19.6.11.13"/>
        <addr><streetAddressLine>7000 Hosptial
```

```
Drive</streetAddressLine><city>Chicago</city><state>IL</state><postalCode>60622</pos
talCode><country>USA</country></ad
```

```
dr>
  <telecom value="312-555-5555"/>
  <assignedPerson>
<name><family>Trenton</family><given>Douglas</given><prefix>Dr.</prefix></name>
  </assignedPerson>
  <representedOrganization>
    <id extension="rm83747" root="1.19.6.11.13"/>
    <name>Hospital Laboratory</name>
    <telecom value="312-555-5555"/>
```

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<addr><streetAddressLine>7000 Hosptial

Drive</streetAddressLine><city>Chicago</city><state>IL</state><postalCode>60622</postalCode><country>USA</country></ad

dr>

```
    </representedOrganization>
  </assignedEntity>
</performer>
</serviceEvent>
</documentationOf>
<authorization>
  <consent classCode="CONS" moodCode="EVN">
    <statusCode code="completed"/>
  </consent>
</authorization>
<componentOf>
  <encompassingEncounter>
    <id extension="ENC1234" root="1.19.6.11.13"/>
    <effectiveTime value="20070604"/>
    <location>
      <healthCareFacility>
        <code code="HU" codeSystem="2.16.840.1.113883.5.10588" codeSystemName="HL7
Service Delivery Location"
displayName="Hospital Unit"/>
      </healthCareFacility>
    </location>
  </encompassingEncounter>
</componentOf>
<component typeCode="COMP">
  <structuredBody classCode="DOCBODY" moodCode="EVN">
    <component typeCode="COMP">
      <section classCode="DOCSECT">
        <code code="18725-2" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC" displayName="Microbiology
Studies"/>
```

```
    <title>Public Health Laboratory Report</title>
    <text><table>
      <thead ID="isoTest">
        <tr>
          <th>Organism Isolated</th>
          <th>Specimen Type</th>
          <th>Comments</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <td>Shigella species</td>
          <td/>
          <td/>
        </tr>
      </tbody>
    </table><table>
      <thead ID="serotypeTest">
        <tr>
          <th>Shigella Serotype</th>
          <th>LOINC</th>
          <th>SNOMED</th>
        </tr>
      </thead>
      <tbody>
```

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```
<tr>
  <td>Shigella flexneri 3a</td>
  <td>7576-0</td>
  <td>125012007</td>
</tr>
</tbody>
</table><table>
<thead>
<tr>
  <th>salmonella susceptibility</th>
  <th>Interpretation</th>
  <th>Comments</th>
</tr>
</thead>
<tbody>
<tr ID="a0">
  <td>Tetracycline</td>
  <td>Susceptible</td>
  <td></td>
</tr>
<tr ID="a1">
  <td>Ciprofloxacin</td>
  <td>Susceptible</td>
  <td></td>
</tr>
<tr ID="a2">
  <td>Trimethprim + Sulfamethoxazole</td>
  <td>Susceptible</td>
  <td></td>
</tr>
<tr ID="a3">
  <td>Ampicillin</td>
  <td>Susceptible</td>
  <td></td>
</tr>
<tr ID="a4">
  <td>Chloramphenicol</td>
  <td>Susceptible</td>
  <td></td>
</tr>
<tr ID="a5">
  <td>Ceftriaxone</td>
  <td>Susceptible</td>
  <td></td>
</tr>
</tbody>
</table><table>
<thead ID="pulsenetTest">
<tr>
  <th>Shigella PulseNet</th>
</tr>
</thead>
<tbody>
<tr>
  <td>PulseNet image embedded in document.</td>
</tr>
</tbody>
</table><renderMultiMedia referencedObject="PulseNet"/></text>
<entry typeCode="DRIV">
  <templateId extension="Lab.Report.Data.Processing.Entry"
root="1.3.6.1.4.1.19376.1.3"/>
  <act classCode="ACT" moodCode="EVN">
    <statusCode code="completed"/>
```

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```
<subject>
  <relatedSubject>
    <code code="CHK" codeSystem="0.0.0.0.3.3" codeSystemName="Animal
System Name"
displayName="Chicken"/>
    <addr><streetAddressLine>1010 Mineral Point
Road</streetAddressLine><city>Janesville</city><state>WI</state><postalCode>53545</p
ostalCode><country>USA</country></
addr>
    </relatedSubject>
  </subject>
  <specimen typeCode="SPC">
    <specimenRole classCode="SPEC">
      <id extension="55584739900388" root="1.19.6.11.13"/>
      <specimenPlayingEntity classCode="MIC">
        <code code="EFOD" codeSystem="2.16.840.1.113883.5.129"
displayName="Chicken"/>
      </specimenPlayingEntity>
      <lab:productOf typeCode="PRD">
        <lab:procedure classCode="PROC" moodCode="EVN">
          <effectiveTime value="20070604"/>
        </lab:procedure>
        <participant>
          <participantRole>
            <addr><streetAddressLine>7000 Hosptial
Drive</streetAddressLine><city>Chicago</city><state>IL</state><postalCode>60622</pos
talCode><country>USA</country></ad
dr>
              <telecom value="312-555-5555"/>
            </participantRole>
          </participant>
        </lab:productOf>
      </specimenRole>
    </specimen>
    <entryRelationship typeCode="COMP">
      <act classCode="ACT" moodCode="EVN">
        <code code="SPC_REC" codeSystem="X.X" codeSystemName="PHLab"
displayName="Specimen Received
Date/Time"/>
          <effectiveTime value="20070605"/>
        </act>
      </entryRelationship>
      <entryRelationship typeCode="COMP">
        <observation classCode="OBS" moodCode="EVN">
          <code code="77352002" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT"
displayName="Shigella">
            <qualifier>
              <name code="XXX" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-RT"
displayName="FROM RELATIONSHIP"/>
              <value code="YYY" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-RT"
displayName="HUMAN/FOOD/ANIMAL"/>
```

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        SampleCDA - shigella nonhuman positive.xml
        </qualifier>
        <translation code="7576-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"
displayName="Shigella"/>
        <translation code="L-1E100" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED"
displayName="Shigella"/>
        </code>
        </observation>
    </entryRelationship>
    <entryRelationship typeCode="COMP">
        <organizer classCode="CLUSTER" moodCode="EVN">
            <statusCode code="completed"/>
            <effectiveTime value="20070608"/>
            <specimen>
                <specimenRole classCode="ISLT">
                    <specimenPlayingEntity>
                        <code code="125012007" codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED-CT"
displayName="Shigella flexneri 3a">
                            <translation code="7576-0"
codesystem="2.16.840.1.113883.6.1" codeSystemName="LOINC"
displayName="Shigella flexneri 3a"/>
                            <translation code="L-1E122"
codesystem="2.16.840.1.113883.6.96" codeSystemName="SNOMED"
displayName="Shigella flexneri 3a"/>
                            </code>
                            </specimenPlayingEntity>
                        </specimenRole>
                    </specimen>
                <component>
                    <observation classCode="OBS" moodCode="EVN">
                        <code code="89029-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"
displayName="Microbiology Culture">
                            <originalText><reference value="isoTest"/></originalText>
                            </code>
                            <text/>
                            <statusCode code="completed"/>
                            <effectiveTime value="20070608"/>
                            <value xsi:type="CE" code="1116048001"
codeSystem="2.16.840.1.113883.6.96"
codeSystemName="SNOMED" displayName="Shigella species"/>
                                </observation>
                            </component>
                        <component>
                            <observation classCode="OBS" moodCode="EVN">
                                <code code="20951-0" codeSystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"
displayName="Shigella Serotype">
                                    <originalText><reference
value="serotypeTest"/></originalText>
                                    </code>
                                    <text>Serotype Test Result Comment</text>
                                    <statusCode code="completed"/>
                                </observation>
                            </component>
                        </component>
                    </observation>
                </component>
            </specimen>
        </organizer>
    </entryRelationship>

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  <effectiveTime value="20070608"/>
  <value xsi:type="CE" code="125012007"
codesystem="2.16.840.1.113883.6.96"
codesystemName="SNOMED-CT" displayName="Shigella flexneri 3a"/>
  </observation>
</component>
<component>
  <organizer classCode="BATTERY" moodCode="EVN">
  <code code="29576-6" codesystem="2.16.840.1.113883.6.1"
codesystemName="LOINC"
displayName="Microbiology susceptibility"/>
  <statusCode code="completed"/>
  <effectiveTime value="20070608"/>
  <component>
  <observation classCode="OBS" moodCode="EVN">
  <code code="18993-6" codesystem="2.16.840.1.113883.6.1"
codesystemName="LOINC"
displayName="Tetracycline">
  <originalText><reference value="a0"/></originalText>
  </code>
  <statusCode code="completed"/>
  <interpretationCode code="S"
codesystem="2.16.840.1.113883.11.10219"
displayName="Susceptible"/>
  </observation>
  </component>
  <component>
  <observation classCode="OBS" moodCode="EVN">
  <code code="18906-8" codesystem="2.16.840.1.113883.6.1"
codesystemName="LOINC"
displayName="Ciprofloxacin">
  <originalText><reference value="a1"/></originalText>
  </code>
  <statusCode code="completed"/>
  <interpretationCode code="S"
codesystem="2.16.840.1.113883.11.10219"
displayName="Susceptible"/>
  </observation>
  </component>
  <component>
  <observation classCode="OBS" moodCode="EVN">
  <code code="18995-5" codesystem="2.16.840.1.113883.6.1"
codesystemName="LOINC"
displayName="Trimethprim + Sulfamethoxazole">
  <originalText><reference value="a2"/></originalText>
  </code>
  <statusCode code="completed"/>
  <interpretationCode code="S"
codesystem="2.16.840.1.113883.11.10219"
displayName="Susceptible"/>
  </observation>
  </component>
  <component>
  <observation classCode="OBS" moodCode="EVN">
  <code code="18864-9" codesystem="2.16.840.1.113883.6.1"

```



```

codeSystemName="LOINC"
displayName="Ampicillin">
    <originalText><reference value="a3"/></originalText>
    </code>
    <statusCode code="completed"/>
    <interpretationCode code="S"
codesystem="2.16.840.1.113883.11.10219"
displayName="Susceptible"/>
    </observation>
</component>
<component>
    <observation classCode="OBS" moodCode="EVN">
        <code code="18903-5" codesystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"
displayName="Chloramphenicol">
    <originalText><reference value="a4"/></originalText>
    </code>
    <statusCode code="completed"/>
    <interpretationCode code="S"
codesystem="2.16.840.1.113883.11.10219"
displayName="Susceptible"/>
    </observation>
</component>
<component>
    <observation classCode="OBS" moodCode="EVN">
        <code code="18895-3" codesystem="2.16.840.1.113883.6.1"
codeSystemName="LOINC"
displayName="Ceftriaxone">
    <originalText><reference value="a5"/></originalText>
    </code>
    <statusCode code="completed"/>
    <interpretationCode code="S"
codesystem="2.16.840.1.113883.11.10219"
displayName="Susceptible"/>
    </observation>
</component>
</organizer>
</component>
<component>
    <observation classCode="OBS" moodCode="EVN">
        <code code="PULSE_NET_RESULT" codesystemName="TEST INDICATOR">
            <originalText><reference
value="pulsenetTest"/></originalText>
            </code>
            <text>PFGE image included.</text>
            <statusCode code="completed"/>
            <effectiveTime value="20070608"/>
            <methodCode code="PFGE"
codesystem="1.2.820.99999.106000022002159086.1170200374775.3"
displayName="PFGE"/>
    </observation>
</component>
</organizer>
</entryRelationship>
</act>
</entry>

```

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```
<entry>
  <observationMedia classCode="OBS" ID="PulseNet" moodCode="EVN">
    <value representation="B64" mediaType="image/jpeg">XX</value>
  </observationMedia>
</entry>
</section>
</component>
</structuredBody>
</component>
</ClinicalDocument>
```